

1. (Currently Amended) A camera, comprising:
a camera lens;
acquisition circuitry capable of receiving images via said camera lens, capable of for
acquiring a first field of view ~~when if~~ said camera lens is in a first orientation and ~~for~~ capable of
acquiring a second field of view ~~when if~~ said camera lens is in a second orientation; and
a viewfinder displaying the second field of view ~~when if~~ said camera lens is in the second
orientation and displaying at least a portion of the first field of view at least partially composited
with the second field of view; and
rectilinear-to-cylindrical conversion circuitry capable of converting the first and second
fields of view from rectilinear coordinates to cylindrical coordinates.
2. (Currently Amended) The camera of claim 1, wherein the second field of view at least
partially overlaps the first field of view.
3. (Currently Amended) The camera of claim 1, wherein a size of the at least a portion of
the first field of view is capable of being prescribed.
4. (Currently Amended) The camera of claim 3, wherein the size of the at least a portion of
the first field of view is capable of being prescribed relative to a size of the first field of view.
5. (Currently Amended) The camera of claim 3, wherein the size of the at least a portion of
the first field of view is capable of being prescribed relative to a size of the second field of view.
6. (Currently Amended) The camera of claim 5, wherein the size of the at least a portion of
the first field of view is comprises its width, and the size of the second field of view is comprises
its width.
7. (Currently Amended) The camera of claim 5, wherein the size of the at least a portion of
the first field of view is comprises its height, and the size of the second field of view is comprises
its height.

8. (Currently Amended) The camera of claim 5, wherein the size of the at least a portion of the first field of view is comprises the field of view angle it subtends, and the size of the second field of view is comprises the field of view angle it subtends.
9. (Currently Amended) The camera of claim 5, wherein the size of the at least a portion of the first field of view is capable of being prescribed to an amount between 20% and 40% of the size of the second field of view.
10. (Currently Amended) The camera of claim 1, wherein the at least a portion of the first field of view is capable of being composited with the second field of view by an opacity of approximately 50%.
11. (Currently Amended) The camera of claim 1, wherein the at least a portion of the first field of view is capable of being composited with the second field of view by an opacity of approximately 100%.
12. (Currently Amended) The camera of claim 1, wherein the focus of said camera lens is capable of being not changed during acquisition of the first and second fields of view.
13. (Currently Amended) The camera of claim 1, further comprising a lens focus lock for capable of locking the focus of said camera lens during acquisition of the first and second fields of view.
14. (Currently Amended) The camera of claim 1, further comprising combining circuitry for capable of combining the first and second fields of view.
15. (Currently Amended) The camera of claim 14, wherein the first and second fields of view ~~are~~comprise portions of a scene and wherein said combining circuitry is capable of ~~combinesing~~ the first and second fields of view into a panoramic image of the scene.
16. (Currently Amended) The camera of claim 15, wherein said panoramic image ~~has~~ comprises a cylindrical geometry.

17. (Cancelled)

18. (Currently Amended) The camera of claim 15, wherein said panoramic image has comprises a spherical geometry.

19. (Currently Amended) The camera of claim 15, further comprising rectilinear-to-spherical conversion circuitry for capable of converting the first and second fields of view from rectilinear coordinates to spherical coordinates.

20. (Currently Amended) The camera of claim 15, further comprising view control circuitry for capable of selecting a portion of the panoramic image to display, and wherein said viewfinder is capable of displaying the selected portion of the panoramic image.

21. (Currently Amended) The camera of claim 20, wherein said panoramic image has comprises a cylindrical geometry, and said camera further comprises cylindrical-to-rectilinear conversion circuitry for capable of converting the selected portion of the panoramic image from cylindrical coordinates to rectilinear coordinates.

22. (Currently Amended) The camera of claim 21, wherein said panoramic image has comprises a spherical geometry, and said camera further comprises spherical-to-rectilinear conversion circuitry for capable of converting the selected portion of the panoramic image from spherical coordinates to rectilinear coordinates.

23. (Currently Amended) The camera of claim 1, wherein said acquisition circuitry is capable of acquiring at least one additional field of view with said camera lens being in at least one additional orientation, and wherein said viewfinder is capable of displaying an additional field of view of said camera lens when said camera lens is in each additional orientation and is capable of displaying at least a portion of at least one previously acquired field of view at least partially composited with the additional field of view.

24. (Currently Amended) The camera of claim 23, wherein each additional field of view is capable of at least partially overlapping the at least one previously acquired field of view.

25. (Currently Amended) The camera of claim 23, wherein the at least a portion of the at least one previously acquired field of view is capable of being composited with the additional field of view by an opacity of approximately 50%.

26. (Currently Amended) The camera of claim 23, wherein the at least a portion of the at least one previously acquired field of view is capable of being composited with the additional field of view by an opacity of approximately 100%.

27. (Currently Amended) The camera of claim 23, wherein the focus of said camera lens is unchanged during acquisition of the first and second and the at least one additional fields of view.

28. (Currently Amended) The camera of claim 23, further comprising a lens focus lock ~~for~~ capable of locking the focus of said camera lens during acquisition of the first and second and the at least one additional fields of view.

29. (Currently Amended) The camera of claim 23, further comprising combining circuitry ~~for~~ capable of combining the first and second and the at least one additional fields of view.

30. (Currently Amended) The camera of claim 29, wherein the first and second and the at least one additional fields of view ~~are~~ comprise portions of a scene and wherein said combining circuitry is capable of combining the first and second and the at least one additional fields of view into a panoramic image of the scene.

31. (Currently Amended) The camera of claim 1, further comprising perspective conversion circuitry ~~for~~ capable of converting a perspective of the at least a portion of the first field of view from the first orientation to the second orientation.

32. (Currently Amended) The camera of claim 31, wherein said perspective conversion circuitry ~~includes~~ comprises line processing circuitry ~~for~~ capable of determining modified color values at pixel locations within vertical lines of the converted at least a portion of the first field of view.

33. (Currently Amended) The camera of claim 32, wherein said line processing circuitry is capable of determining modified color values at pixel locations within vertical lines of the converted at least a portion of the first field of view based at least in part on unmodified color values at a corresponding vertical line of the at least a portion of the first field of view.

34. (Currently Amended) The camera of claim 32, wherein said line processing circuitry is capable of rescaling vertical lines of the at least a portion of the first field of view..

35. (Currently Amended) The camera of claim 1, further comprising an indicator capable of indicating when said camera lens is in the second orientation.

36. (Currently Amended) The camera of claim 35, wherein said indicator is comprises a light source.

37. (Currently Amended) The camera of claim 35, wherein said indicator is comprises a beeper.

38-122. (Cancelled)

38123. (Currently amended) A method, comprising:

acquiring a first image;

acquiring a second image;

converting at least a portion of the first and second images from rectilinear to cylindrical view based at least in part upon a conversion from rectilinear to cylindrical coordinates; and displaying the converted view.

39124. (Currently amended) The method according to claim 38123, further comprising compositing the at least a portion of the first and second images.

40125. (Currently amended) The method according to claim 38123, further comprising displaying the at least a portion of the first and second images.

41126. (Currently amended) The method according to claim 38123, further comprising combining the at least a portion of the first and second images into a panoramic image.

42127. (Currently amended) The method according to claim 41126, wherein said panoramic image comprises a cylindrical geometry.

43128. (Currently amended) The method according to claim 41126, wherein said panoramic image comprises a spherical geometry.

44129. (Currently amended) The method according to claim 41126, further comprising converting the at least a portion of first and second images from rectilinear coordinates to spherical coordinates.

45130. (Currently amended) The method according to claim 41126, wherein said panoramic image comprises a cylindrical geometry and further comprising converting a portion of the panoramic image from cylindrical coordinates to rectilinear coordinates.

46131. (Currently amended) The method according to claim 38123, further comprising converting a perspective of a portion of the first image from a first orientation to a second orientation.

47132. (Currently amended) The method according to claim 46131, wherein said perspective converting further comprises line processing which comprises determining modified color values at pixel locations within vertical lines of a portion of the first image.

48133. (Currently amended) The method according to claim 47132, wherein said line processing further comprises determining modified color values at pixel locations within vertical lines of the portion of the first image based at least in part on unmodified color values at a corresponding vertical line of the portion of the first image.

49134. (Currently amended) The method according to claim 47132, wherein said line processing further comprises rescaling vertical lines of the portion of the first image.

50135. (Currently amended) A system, comprising:

- means for acquiring a first image;
- means for acquiring a second image;
- means for converting at least a portion of the first and second image from rectilinear to cylindrical view based at least in part upon a conversion from rectilinear to cylindrical coordinates; and
- means for displaying the converted view.

51136. (Currently amended) The system according to claim 50135, further comprising means for compositing the at least a portion of the first and second views.

52137. (Currently amended) The system according to claim 50135, further comprising means for displaying the at least a portion of the first and second images.

53138. (Currently amended) The system according to claim 50135, further comprising means for converting the at least a portion of the first and second images from rectilinear coordinates to spherical coordinates.

54139. (Currently amended) The system according to claim 50135, further comprising means for combining the at least a portion of the first and second images into a panoramic image.

55140. (Currently amended) The system according to claim 54139, wherein said panoramic image comprises a cylindrical geometry and further comprising means for converting a portion of the panoramic image from cylindrical coordinates to rectilinear coordinates.

56141. (Currently amended) The system according to claim 50135, further comprising means for converting a perspective of a portion of the portion of the first image from a first orientation to a second orientation.

57142. (Currently amended) The system according to claim 56141, wherein said means for perspective converting further comprises means for line processing which comprises means for determining modified color values at pixel locations within vertical lines of a portion of the portion of the first image.

58143. (Currently amended) The system according to claim 57142, wherein said means for line processing further comprises means for determining modified color values at pixel locations within vertical lines of the portion of the first image based at least in part on unmodified color values at a corresponding vertical line of the portion of the first image.

59144. (Currently amended) The system according to claim 57142, wherein said means for line processing further comprises means for rescaling vertical lines of the portion of the first image.

60145. (Currently amended) An article comprising a storage medium having stored thereon instructions, which, if executed, result in:

- acquiring a first image;
- acquiring a second image;
- converting at least a portion of the first and second image from rectilinear to cylindrical view based at least in part upon a conversion from rectilinear to cylindrical coordinates; and
- displaying the converted view.

61146. (Currently amended) The article according to claim 60145, further comprising compositing the at least a portion of the first and second views.

62147. (Currently amended) The article according to claim 60145, further comprising displaying the at least a portion of the first and second images.

63148. (Currently amended) The article according to claim 60145, further comprising converting the at least a portion of the first and second images from rectilinear coordinates to spherical coordinates.

64149. (Currently amended) The article according to claim 60145, further comprising combining the at least a portion of first and second images into a panoramic image.

65150. (Currently amended) The article according to claim 64149, wherein said panoramic image comprises a cylindrical geometry and further comprising converting a portion of the panoramic image from cylindrical coordinates to rectilinear coordinates.

66151. (Currently amended) The article according to claim 60145, further comprising converting a perspective of a portion of the first image from a first orientation to a second orientation.

67152. (Currently amended) The article according to claim 66151, wherein said perspective converting further comprises line processing which comprises determining modified color values at pixel locations within vertical lines of a portion of the first image.

68153. (Currently amended) The article according to claim 67152, wherein said line processing further comprises determining modified color values at pixel locations within vertical lines of the portion of the first image based at least in part on unmodified color values at a corresponding vertical line of the portion of the first image.

69154. (Currently amended) The article according to claim 67152, wherein said line processing further comprises rescaling vertical lines of the portion of the first image.